

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/038252

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K35/78 C07C29/86 C07J63/00 A61K31/00 A61K7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/26343 A (REGENTS OF THE UNIVERSITY OF MINNESOTA; KRASUTSKY, PAVEL A; NESTERENKO) 4 April 2002 (2002-04-04) page 27, line 10 - page 36, line 3	1,2,4-8, 11-43, 45-57,60
X	GB 1 063 118 A (ROGER BELLON) 30 March 1967 (1967-03-30) page 1, right-hand column, lines 53-90; claim 1	68-71
A	FR 2 802 818 A (GREENTECH SA) 29 June 2001 (2001-06-29) page 2, line 17 - page 3, line 3; claim 1	1,2,4-8, 11-43, 45-57, 60-67, 69-71

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"G" document member of the same patent family

Date of the actual completion of the international search

30 August 2005

Date of mailing of the international search report

06. 09. 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Mateo Rosell, A.M.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/038252

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-59,61-67 complete and 69-71 in part

A method for obtaining a natural product from a plant material; a method for obtaining lupeol from birch bark ; a method for obtaining betulinic acid from birch bark.

2. claim: 60

A method for obtaining betulin form birch bark

3. claims: 68 complete and 69-71 in part

A method for purifying an extract of a natural product

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/038252

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0226343	A	04-04-2002	AU 9320201 A	08-04-2002
			CA 2424002 A1	04-04-2002
			EP 1355708 A2	29-10-2003
			JP 2004509736 T	02-04-2004
			NO 20031455 A	28-05-2003
			WO 0226343 A2	04-04-2002
			US 2002155177 A1	24-10-2002
			US 2004009242 A1	15-01-2004
			US 2002114853 A1	22-08-2002
GB 1063118	A	30-03-1967	FR 5294 M	16-08-1967
FR 2802818	A	29-06-2001	FR 2802818 A1	29-06-2001